FFFFFFFFFFFFFFFFFFFF	00000000 00000000 00000000	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	LLL
FFF	000 000		RRR RRR	TTT	III
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000	RRRRRRRRRRR	RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	rrr
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLL

FFFFFFFFF FF FF FF FF FFFFFFFF FF FF FF	000000 00 00 00 00	RRRRRRRR RR	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
		\$					

MODULE FOR\$\$DISPATCH\_T (%TITLE'I/O dispatch tables for FORTRAN' IDENT = '1-020' ! File: FORDISPAT.B32 ! File: FORDISPAT.B32 Edit: SBL1020

BEGIN

1 \*

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! FACILITY:

FORTRAN 1/0

ABSTRACT:

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This module contains the Global dispatch tables for the UDF (user data formatter) level and REC (record) level for FORTRAN. In addition it contains a routine which signals errors for invalid statement types.

## **ENVIRONMENT:**

AST reentrant - all OWN storage is read only

AUTHOR: Donald G. Petersen , CREATION DATE: 07-Dec-78

## MODIFIED BY:

DGP.06-Dec-78: VERSION 1-001
1-001 - original. DGP 06-Dec-78
1-002 - Add some functionality to OTS\$\$SIGDIS\_ERR. DGP 08-Dec-78
1-003 - Change dispatch tables to longwords. DGP 11-Dec-78
1-004 - Add Basic READ to dispatch tables. DGP 12-Dec-78
1-005 - Change FORLNK require file to OTSLNK. JBS 22-DEC-78
1-006 - Signal the proper errors in the error routine. DGP 18-Jan

1-006 - Signal the proper errors in the error routine. DGP 18-Jan-79 1-007 - Change file name to OTSDISPAT to agree with RTL standards and internal comments. JBS 27-JAN-1979 1-008 - Use 32-bit addresses for externals. JBS 27-JAN-1979

FI	DR\$\$DISPATCH_T	T I/O dispatch tables for FORTRAN 16-Sep-	-1984 00:18:37 VAX-11 Bliss-32 V4.0-742 Pa -1984 12:31:49 [FORRTL.SRC]FORDISPAT.B32;1	ag
	58 59 60 61 62 63 64 65 66 67 68 69 71 72 73 74 75 77 78	0058 1 1-009 - Track SBL's changes to the statement JBS 09-FEB-1979 0060 1 1-010 - Add GET and PUT. DGP 19-Feb-79 0061 1 1-011 - Add PRINT USING and straighten up a l 15-May-79 0062 1 15-May-79 0063 1 1-012 - Add MAT INPUT. DGP 05-Jun-79 0064 1 1-013 - Add MAT PRINT. DGP 15-Jun-79 0065 1 1-014 - Add remaining FORTRAN statement types keyed READ, internal READ and WRITE. 0066 1 Remove BASIC and change name to FOR\$\$\$ 0068 1 BASIC part is put into BAS\$\$DISPATCH DORS 1 1-016 - Use ISB symbols to determine table \$70000 1 1-017 - Add FOR\$\$SIGDIS_JSB. JBS 01-JUL-1979 0071 1 ***** - VMS V2.0 0072 1 1-018 - Add table entries for NAMELIST. SBL 0073 1 1-019 - Make UDF- and REC-level references WE 0074 1 ***** - VMS V3.0 0075 1 1-020 - Add table entries for list-directed prologue file. SBL 21-Apr-1983	lot of Basic stuff. DGP  s. Indexed REWRITE, SBL 18-Jun-1979 \$DISPATCH_T. The H_T. JBS 26-JUN-1979 iZe. SBL 12-July-1979  16-July-1980 EAK. JAW 25-Aug-1981	

FOR 1-C

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VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
                                                                                                                                                                                                                                                                                                                                                          16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FORSSDISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page
              0079
0080
0081
0082
0083
0149
0150
0151
0155
0155
0156
                                                                                                                                          PROLOGUE FILE:
                                                                                                                                REQUIRE 'RTLIN: FORPROLOG':
                                                                                                                                                                                                                                                                                                                                                                                         ! FORTRAN definitions
                                                                                                                                  ! TABLE OF CONTENTS:
                                                                                                                             FOR$$SIGDIS_ERR : CALL_CCB NOVALUE,
FOR$$SIGDIS_JSB : JSB_DDFO NOVALUE;
                                                                                                                                                                                                                                                                                                                                                                           ! Signal a dispatch error ! (JSB entry point)
                                                                                     0158
0159
0160
0161
                                                                                                                                          MACROS:
                                                                                                                                                                              NONE
                                                                                     0162
0163
0164
0165
                                                                                                                                           EQUATED SYMBOLS:
                                                                                                                                                                              NONE
                                                                                     0166
                                                                                                                                            EXTERNAL REFERENCES:
                                                                                      0168
                                                                                      0169
                                                                                     0170
0171
                                                                                                                              EXTERNAL LITERAL OTS$ FATINTERR,
                                                                                   0172
0173
0174
0175
0176
0177
0178
                                                                                                                                                      OTS$_IO_CONCLO;
              111
                                                                                                                                 ! Formatting level of abstraction
             EXTERNAL ROUTINE

FOR$$UDF_RFO: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RF1: CALE CCB NOVALUE WEAK,

FOR$$UDF_RF9: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WFO: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WF1: CALE CCB NOVALUE WEAK,

FOR$$UDF_RU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_WU0: JSB_UDFO NOVALUE WEAK,

FOR$$UDF_RL0: 
                                                                                                                                                                                                                                                                                                                                                                                                                Initialize read formatted format one I/O list element
                                                                                     0180
0181
0182
0183
0184
0185
                                                                                                                                                                                                                                                                                                                                                                                                         format one I/O list element
terminate read formatted
Initialize write formatted
Format one I/O list element
Terminate write formatted
Initialize read unformatted
Transmit one I/O list element
Terminate read unformatted
Initialize write unformatted
Transmit one I/O list element
Terminate write unformatted
Initialize read list-directed
Initialize read list directed
Initialize write list-directed
Initialize write list-directed
Transmit one I/O list element
Terminate read list directed
Initialize write list-directed
Initialize read NAMELIST
RN1 exists
                                                                                      0186
0187
                                                                                       0188
                                                                                       0189
                                                                                       0190
                                                                                       0191
                                                                                       0192
                                                                                       0194
0195
                                                                                       0196
0197
                                                                                                                                                                                                                                                                                                                                                                   No UDF RN1 exists
! Terminate read NAMELIST
! Initialize write NAMELIST
                                                                                                                                                       FOR$$UDF_RN9 : JSB_UDF9 NOVALUE WEAK, FOR$$UDF_WN0 : JSB_UDF0 NOVALUE WEAK,
```

FOF

\$\$DISPATCH_T 20 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219	1/0 dispa 0258 1 0259 1 0260 1 0261 1 0262 1 0263 1 0264 1 0265 1 0266 1 0267 1 0270 1 0271 1 0272 1 0273 1 0274 1 0275 1 0276 1 0277 1 0278 1 0279 1 0280 1 0281 1 !	FORSSREC_WILO : JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_RIFO: JSB_RECO NOVAL FORSSREC_RIFO: JSB_RECO NOVAL FORSSREC_RIFO: JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_WINO: JSB_RECO NOVAL FORSSREC_RIFO: JSB_RECO NOVAL FORSSREC_WILO: JSB_RECO NOVAL FORSSREC_WILD: JSB_RECO NOVAL FORSSREC_WILD: JSB_RECO NOVAL FORSSREC_WILD: JSB_RECO NOVAL FORSSREC_RILO: JSB_RECO NOVAL FORSS	UE WEAK, Rea	ite internal ite NAMELIST ere is no 9 utine for Wr ad NAMELIST ere is no 9 utine for Re ite internal	file	Page (2)

FO!

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FOF
1-0
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FORSSDISPATCH_T I/O dispatch tables for FORTRAN 1-020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32:1
                                                                                                                                             GLOBAL DISPATCH VECTORS (indexed by I/O statement type numbers): Connects the first level of abstraction (UPI) to the second level (UDF). Note: The comments down the side describe the I/O statement index (UPI level) into the
                 dispatch table rather than the external routine contained in the entry (UDF level). The entries are the name of the User data formatters (UDF level = 2nd level of abstraction) - First letter: R = READ, W = WRITE; second letter: F = formatted, W = unformatted, L = list-directed.

Declare as GLOBAL rather then GLOBAL BIND because BLISS doesn't allow BIND table = ... - table).
                                                                                                                                           Initialization of UDF level:
                                                                                        0300
                                                                                        0301
                                                                                                                                  GLOBAL
                                                                                                                                                        FOR$$AA_UDF_PRO : VECTOR [ISB$K_FORSTTYHI - ISB$K_FORSTTYLO + 2., SIGNED]
                                                                                                                                                                              PSECT (_FOR$CODE) INITIAL
                                                                                                                                                                                                                                                                                                                            I/O on closed unit
                                                                                                                                                                                                    FOR$$SIGDIS_JSB - FOR$$AA_UDF_PRO,
! I/O statement
                                                                                                                                                                                                FORSSUDF WFO - FORSSAA UDF PRO,
FORSSUDF WUO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RUO - FORSSAA UDF PRO,
FORSSUDF RFO - FORSSAA UDF PRO,
FORSSUDF RO - FORSSAA UDF PRO,
                                                                                         0307
                                                                                                                                                                                                                                                                                                                                                                                                                        WRITE sequential formatted (WSF)
                                                                                                                                                                                                                                                                                                                                                                                                                  READ sequential formatted (RSF)
WRITE sequential unformatted (WSU)
                                                                                         0309
                                                                                                                                                                                                                                                                                                                                                                                                                 READ sequential unformatted (RSU)
WRITE direct formatted (WDF)
READ direct formatted (RDF)
WRITE direct unformatted (WDU)
                                                                                                                                                                                                                                                                                                                                                                                                                   READ direct unformatted (RDU)
                                                                                                                                                                                                                                                                                                                                                                                                                WRITE sequential list-direct (WSL)
READ sequential list-directed (RSL)
ENCODE (memory formatted) (WMF)
DECODE (memory formatted) (RMF)
FORTRAN REWRITE indexed formatted (WXF)
                                                                                                                                                                                                                                                                                                                                                                                                         FORTRAN REWRITE indexed formatted (WXF)
FORTRAN READ keyed formatted (RKF)
FORTRAN REWRITE indexed unformatted (WXU)
FORTRAN READ keyed unformatted (RKU)
FORTRAN WRITE internal formatted (WIF)
FORTRAN READ internal formatted (RIF)
FORTRAN WRITE NAMELIST
FORTRAN READ NAMELIST
FORTRAN WRITE internal list-directed
FORTRAN READ internal list-directed
```

(4)

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16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FOR$$DISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32:1
                                                                                                                                                                                                                                                                                                                     (6)
       0392
0393
                                                             Dispatch tables to call record processing level of abstraction routines (REC = 3rd level). Used to connect 2nd level of abstraction (UDF) to third level of abstraction (REC).
                                      0394
0395
0396
0397
                                                              The dispatch tables are indexed by I/O statement type (1st
                                                              level UPI.)
                                                             Record processing routine names have the form:
first letters: R = READ, W = WRITE));
Second letters: S = sequential, D = direct, M = memory));
third letters: F = formatted, U = unformatted, L = list-directed.
                                      0398
0399
                                      0400
                                      Initialize entry points (read first record or setup
                                                              output buffer).
                                                                GLOBAL
                                                                                                                                                                              WRITE direct unformatted (WDU)
READ direct unformatted (RDU)
WRITE sequential list-direct (WSL)
READ sequential list-directed (RSL)
ENCODE (memory formatted) (WMF)
DECODE (memory formatted) (RMF)
FORTRAN REWRITE indexed formatted (WXF)
FORTRAN READ keyed formatted (RKF)
FORTRAN READ keyed unformatted (WXU)
FORTRAN WRITE indexed unformatted (RKU)
FORTRAN WRITE internal formatted (WIF)
FORTRAN WRITE INTERNAL FORTRAN WRITE NAMELIST
FORTRAN READ NAMELIST
FORTRAN READ internal list-dorected
FORTRAN READ internal list-directec
```

1-0

FOR 1-0

```
FOR$$DISPATCH_T I/O dispatch tables for FORTRAN 1-020
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
LFORRTL.SRCJFORDISPAT.B32:1
                                                                                                                                                                                                                     Page
    2345678901234567890123456678901234567890123456789012345678901234567890123456789012345678901234567
                                         ROUTINE FOR$$SIGDIS_ERR : CALL_CCB NOVALUE =
                                            FUNCTIONAL DESCRIPTION:
                                                      Signal an error from the I/O dispatch process. The error code signalled depends on the statement type. One statement type is used by CLOSE to catch dispatches on a closed unit, which can happen if the CLOSE is done as part of recursive I/O. If the statement type is not the one used by CLOSE, we have an error in the RTL (an invalid statement type).

Note that, at the present time, FORTRAN does not permit recursive I/O.
                                            FORMAL PARAMETERS:
                                                       NONE
                                            IMPLICIT INPUTS:
                                                       ISB$B_STIM_TYPE.rb.r
                                                                                                              Statement type of I/O statement
                                            IMPLICIT OUTPUTS:
                                                      NONE
                                            ROUTINE VALUE:
                                            COMPLETION CODES:
                                                      NONE
                                            SIDE EFFECTS:
                                                      Signals OTS$_IO_CONCLO if the LUB is not open, or OTS$_FATINTERR if it is.
                                               BEGIN
                                               EXTERNAL REGISTER
                                                      CCB : REF $FOR$CCB_DECL;
                                                IF ( NOT .CCB [LUB$V_OPENED])
                                                THEN
                                            The file must have been closed with I/O still active on it.
                                                       SIGNAL_STOP (OTS$_IO_CONCLO)
                                            This must be an attempt to use an unimplemented feature. It represents
                                            an internal error in the OTS.
                                                       SIGNAL_STOP (OTS$_FATINTERR);
                                                0
```

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FOR$$DISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                   16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
1-020
: 499
                                    0556 1
                                                                END:
                                                                                                                                                                     !End of FOR$$SIGDIS_ERR
                                                                                                                                                                                           FOR$$DISPATCH_T I/O dispatch tables for FORTRAN \1-020\
                                                                                                                                                                          .PSECT _FOR$CODE,NOWRT, SHR, PIC,2

<forssigdis Jsb-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -
<forssudf wuo-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -
<forssudf wuo-forssaa udf Pro>, -
<forssudf wuo-forssaa udf Pro>, -
<forssudf wuo-forssaa udf Pro>, -
<forssudf wlo-forssaa udf Pro>, -
<forssudf wlo-forssaa udf Pro>, -
<forssudf wfo-forssaa udf Pro>, -

<ppe>

<ppe>

<ppe>
<ppe>
<ppe>
<ppe>
<ppe>
<ppe>
<ppe>
```

Sym

FOR

FOR

FOR FOR FOR FOR

PSE

\_FC

Pha

Ini Com Pas Sym Pas Sym Pse

Cro

The 667 The 177

Mac

-\$2 TO

183

The

MAC

```
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FOR$$DISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1

                                                                                                                                              .LONG

<fors$sigdis Jsb-fors$aa Rec PR1>, -
<fors$rec wsf1-for$$aa Rec PR1>, -
<fors$rec Rsf1-for$$aa Rec PR1>, -
<fors$rec Wsu1-for$$aa Rec PR1>, -
<fors$rec Rsu1-for$$aa Rec PR1>, -
<fors$rec Wd1-for$$aa Rec PR1>, -
<fors$rec Wd1-for$$aa Rec PR1>, -
<for$$rec Wd1-for$$aa Rec PR1>, -
<for$$rec Wd1-for$$aa Rec PR1>, -
<for$$rec Rd1-for$$aa Rec PR1>, -
<for$$rec Wd1-for$$aa Rec PR1>, -
<for$$rec Rd1-for$$aa Rec PR1>, -
</for$$rec Rd1-for$$aa Rec PR1>, -
</for$$rec Rd1-for$$aa Rec PR1>, -
```

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```
C 2
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FOR$$DISPATCH_T I/O dispatch tables for FORTRAN 1-020
                                                                                                                                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 16 (9)
                                                                                                                                                                                                                                                                                                                                                                                                             FOR$SUDF_WL1, FOR$SUDF_WL9
FOR$SUDF_RNO, FOR$SUDF_RN9
FOR$SUDF_WNO, FOR$SUDF_WN9
FOR$SREC_RSF0, FOR$$REC_WSF0
FOR$$REC_RSF9, FOR$$REC_WSF9
FOR$$REC_RSU0, FOR$$REC_WSU0
FOR$$REC_RSU9, FOR$$REC_WSU9
FOR$$REC_RSU9, FOR$$REC_WSU9
FOR$$REC_RSU9, FOR$$REC_WSU9
FOR$$REC_RSU9, FOR$$REC_WSU9
FOR$$REC_RD0, FOR$$REC_WD0
FOR$$REC_RD1, FOR$$REC_WD9
FOR$$REC_RD1, FOR$$REC_WD9
FOR$$REC_RD1, FOR$$REC_WD9
FOR$$REC_RSU9, FOR$$REC_WD9
FOR$$REC_RSU9, FOR$$REC_WD9
FOR$$REC_RSU1, FOR$$REC_WD9
FOR$$REC_RSU1, FOR$$REC_WSU0
FOR$$REC_RSU1, FOR$$REC_WSU0
FOR$$REC_RSU1, FOR$$REC_RSU1
                                                                                                                                                                                                                                                                                                                                                                         . WEAK
                                                                                                                                                                                                                                                                                                                                                                          .WEAK
                                                                                                                                                                                                                                                                                                                                                                           . WEAK
                                                                                                                                                                                                                                                                                                                                                                         .WEAK
                                                                                                                                                                                                                                                                                                                                                                          . WEAK
                                                                                                                                                                                                                                                                                                                                                                         . WEAK
                                                                                                                                                                                                                                                                                                                                                                          .WEAK
                                                                                                                                                                                                                                                                                                                                                                          .WEAK
                                                                                                                                                                                                                                                                             0000 00000 FOR$$SIGDIS_ERR:
                                                                                                                                                                                                                                                                                                                                                                                                                Save nothing
-4(CCB), 1$
#OTS$_IO_CONCLO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0499
0542
0547
                                                                                                                                                                                                                                                                                      E8 00002
DD 00006
11 0000C
                                                                                                                                                                                                                                                                                                                                                                          BLBS
                                                                                                                                                                                                             0000000G
                                                                                                                                                                                                                                                                                                                                                                          PUSHL
                                                                                                                                                                                                                                                                 06
8F
01
                                                                                                                                                                                                                                                                                                                                                                          BRB
                                                                                                                                                                                                                                                                                    DD 0000E 1$:
FB 00014 2$:
04 0001B
                                                                                                                                                                                                              0000000G
                                                                                                                                                                                                                                                                                                                                                                                                                #OTS$ FATINTERR
#1, LIB$STOP
                                                                                                                                                                                                                                                                                                                                                                          PUSHL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0553
                                                                                                                                         0000000G
                                                                                                                                                                                                                                                                                                                                                                          CALLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0556
                                                                                                                                                                                                                                                                                                                                                                          RET
; Routine Size: 28 bytes.
                                                                                                                                      Routine Base: _FOR$CODE + 0228
```

```
16-Sep-1984 00:18:37
14-Sep-1984 12:31:49
FORSSDISPATCH_T I/O dispatch tables for FORTRAN
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORDISPAT.B32:1
    ROUTINE FOR$$SIGDIS_JSB : JSB_UDFO NOVALUE =
                                        FUNCTIONAL DESCRIPTION:
                         0560
                                                  Signal an error from the I/O dispatch process. The error code signalled depends on the statement type. One statement type is used by CLOSE to catch dispatches on a closed unit, which can happen if the CLOSE is done as part of recursive I/O. If the statement type is not the one used by CLOSE, we have an error in the RTL (an invalid statement type).

Note that, at the present time, FORTRAN does not permit
                         0566
0567
                         0568
0569
                                                   recursive I/O.
                                         FORMAL PARAMETERS:
                                                   NONE
                                         IMPLICIT INPUTS:
                         0576
0577
                                                   ISB$B_STTM_TYPE.rb.r
                                                                                                      Statement type of I/O statement
                         0578
                                         IMPLICIT OUTPUTS:
                         0580
                         0581
                                                  NONE
                         0582
0583
                                         ROUTINE VALUE:
                         0584
                                         COMPLETION CODES:
                         0585
                         0586
                                                  NONE
                         0587
                         0588
                                         SIDE EFFECTS:
                         0589
                                                  Signals OTS$_IO_CONCLO if the LUB is not open, or OTS$_FATINTERR if it is.
                         0590
                         0591
                         0592
0593
                         0594
0595
                                            BEGIN
                         0596
                         0597
                                            EXTERNAL REGISTER
                         0598
0599
                                                  CCB : REF $FOR$CCB_DECL;
                         0600
0601
0602
0603
0604
0605
0606
0607
                                            IF ( NOT .CCB [LUB$V_OPENED])
                                            THEN
                                      ! The file must have been closed with I/O still active on it.
                                            ELSE SIGNAL_STOP (OTS$_10_CONCLO)
                                         This must be an attempt to use an unimplemented feature. It represents
                         0609
                                         an internal error in the OTS.
                         0610
0611
0612
0613
                                                   SIGNAL_STOP (OTS$_FATINTERR);
                                            0
```

FOR 1-0 FORSSDISPATCH\_T I/O dispatch tables for FORTRAN 16-Sep-1984 00:18:37 14-Sep-1984 12:31:49 VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FORDISPAT.B32;1 Page 18 (10) 1-020 : 558 0614 1 END: !End of FOR\$\$SIGDIS\_JSB E8 00000 FOR\$\$SIGDIS\_JSB: BLBS 08 FC -4(CCB), 1\$ #0TS\$\_IO\_CONCLO 0600 DD 00004 11 0000A DD 0000C 1\$: FB 00012 2\$: 05 00019 8F 06 8F 01 0000000G PUSHL 0605 BRB 0000000G #OTS\$\_FATINTERR PUSHL 0611 00000000G 00 #1, LIB\$STOP CALLS RSB 0614 ; Routine Size: 26 bytes, Routine Base: \_FOR\$CODE + 0244 559 560 561 0615 1 END 0616 1 0617 0 ELUDOM !End of module .EXTRN LIB\$STOP PSECT SUMMARY Name Bytes Attributes FOR\$CODE 606 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time \_\$255\$DUA28:[SYSLIB]STARLET.L32:1 \_\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32:1 \_\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32:1 00:01.0 711 185 00:00.6 00:00.1

FO!

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LISS:FORDISPAT/OBJ=OBJS:FORDISPAT MSRCS:FORDISPAT/UPDATE=(ENHS:FORDISPAT

: Size: 54 code + 552 data bytes : Run Time: 00:10.7

FORSSDISPATCH\_T I/O dispatch tables for FORTRAN 1-020

F 2 16-Sep-1984 00:18:37 VAX-11 Bliss-32 V4.0-742

Page 19

: Elapsed Time: 00:32.2 : Lines/CPU Min: 3476 : Lexemes/CPU-Min: 10061 : Memory Used: 110 pages : Compilation Complete

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0180 AH-BT13A-SE

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